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Applicants: David William Holden

Serial No.: 09/714,602

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Filed: November 16, 2000

Examiner: Not Yet Assigned

For: *IDENTIFICATION OF GENES*

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicant submits an Information Disclosure Statement, including nine (9) pages of Form PTO-1449. The documents cited below were cited by or submitted to the Patent Office in Application Serial No. 08/637,759, filed July 19, 1997, and 09/201,945, filed December 1, 1998, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1667.



U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
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Foreign Documents

<u>Number</u>	<u>Publication Date</u>	<u>Patentee</u>	<u>Country</u>
WO 92/01056	01-23-1992	Institut Pasteur; Institut National De La Recherche Medical	PCT
WO 93/04202	03-04-1993	Washington University	PCT
WO 94/26933	11-24-1994	The Board of Trustees of the Leland Stanford Junior University	PCT

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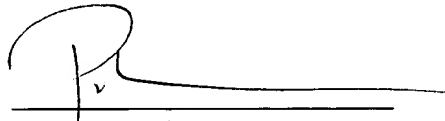
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Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicant invites the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicant is of the opinion that his claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,


Patrea L. Pabst
Reg. No. 31,284

Dated: June 12, 2001

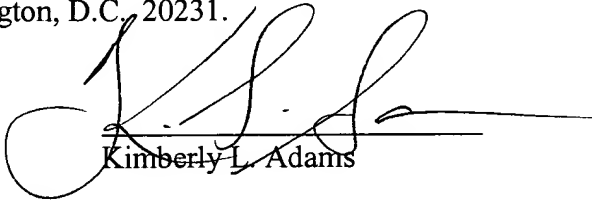
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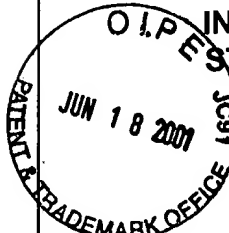
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		First Named Inventor	David William Holden
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Sheet	1	of	9

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,397,697	✓	Lam, et al.	03-14-1995	
		5,527,674		Guerra, et al.	06-18-1996	
		5,700,606	83	Stover, et al.	12-23-1997	
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FOREIGN PATENT DOCUMENTS								
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		WO	92/01056 ✓		Institut Pasteur; Institut National De La Recherche Medical	01-23-1992		
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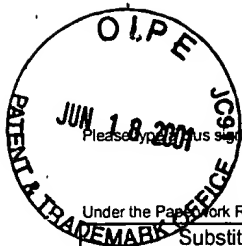
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	✓	ADACHI, et al., (Abstract) "Isolation of Dictyostelium discoideum cytokinesis mutants by restriction enzyme-mediated integration of the blasticidin S resistance marker," <i>Biochem. Biophys. Res. Comm.</i> 205:1808-1814 (1994).	
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OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	✓	CAMILLI, et al., "Insertional Mutagenesis Of <i>Listeria Monocytogenes</i> With A Novel Tn917 Derivative That Allows Direct Cloning Of DNA Flanking Transposon Insertions", <i>J. Bacteriol.</i> 172:3738-3744 (1990).	
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		DUNYAKL, et al., "Identification of <i>Salmonella</i> pathogenicity island 2 (SPI2) genes in <i>Salmonella choleraesuis</i> using signature-tagged mutagenesis," <i>Abstracts of the 97th General Meeting of the American Society for Microbiology</i> B-275, May 4-8, 1997.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/714,602
Filing Date	November 16, 2000
First Named Inventor	David William Holden
Group Art Unit	1636
Examiner Name	
Attorney Docket Number	RPMS 101 CON(3)

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		FREESTONE, et al., "Stabilized 17D strain yellow fever vaccine:dose response studies, clinical reactions and effects on hepatic function," <i>Journal of Biological Standardization</i> 5:181-186 (1977).	
	✓	GAILLARD, et al., "Transposon mutagenesis as a tool to study the role of hemolysin in the virulence of <i>Listeria monocytogenes</i> ," <i>Infect. Immun.</i> 52:50-55 (1986).	
	✓	GALAN, et al., "Molecular And Functional Characterization Of The Salmonella Invasion Gene invA: Homology Of InvA To Members Of A New Protein Family," (1992).	
	✓	GROISMAN & OCHMAN, "How To Become A Pathogen," <i>Trends Microbiol.</i> 2:289-293 (1994).	
	✓	GROISMAN & SAE, "Salmonella Virulence: New Clues To Intramacrophage Survival," <i>Trends In Biochem. Sci.</i> 15:30-33 (1990). <i>SAIER p42</i>	
	✓	GROISMAN, et al., "Molecular, Functional And Evolutionary Analysis Of Sequences Specific To Salmonella," <i>Proc. Natl. Acad. Sci. USA</i> 90:1033-1037 (1993).	
	✓	GROISMAN, et al., "Salmonella Typhimurium phoP Virulence Gene Is A Transcriptional Regulator," <i>Proc. Natl. Acad. Sci. USA</i> , 86:7077-7081 (1989).	
	✓	HAN, et al., "Tn5 tagging of the phenol-degrading gene on the chromosome of <i>Pseudomonas putida</i> ," <i>Mol. Cells</i> 7:40-44 (1997).	
	✓	HENSEL, et al., "Simultaneous Identification Of Bacterial Virulence Genes By Negative Selection," <i>Science</i> 269:400-403 (1995).	
		HENSEL, et al., "Analysis of the boundaries of <i>Salmonella</i> pathogenicity island 2 and the corresponding chromosomal region of <i>Escherichia coli</i> K-12," <i>Journal of Bacteriology</i> 179:1105-1111 (1997).	

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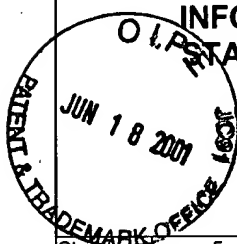
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	✓	HOLLAND, et al., "Tn916 Insertion Mutagenesis In Escherichia Coli And Haemophilus Influenzae Type b Following Conjugative Transfer," <i>J. Gen. Microbiol.</i> 138:509-515 (1992).	
		JIANG, et al., "Structure and sequence if the rfb (O antigen) gene cluster of Salmonella serovar typhimurium (strain LY2)," <i>Mol. Microbiol.</i> 5:695-713 (1991).	
		JUNTENEN-BACKMAN, et al., "Safe immunization of allergic children against measles, mumps, and rubella," <i>AJDC</i> 141:1103-1105 (1987).	
	✓	KAHRS, et al., "Generalized transposon shuttle mutagenesis in Neisseria gonorrhoeae: a method for isolating epithelial cell invasion-defective mutants," <i>Mol. Microbiol.</i> 12:819-831 (1994).	
	✓	KIM, et al., "The hrpA and hrpC operons of Erwinia amylovora encode components of a type III pathway that secretes harpin," <i>J. Bacteriol.</i> 179(5):1690-1697 (1997).	
	✓	LEAHY, et al., "Transposon mutagenesis in Acinetobacter calcoaceticus RAG-1," <i>J. Bacteriol.</i> 175:1838-1840 (1993).	
	✓	LEE & FALKOW, "Isolation of Hyperinvasive Mutants of Salmonella," <i>Methods Enzymol.</i> 265:531-545 (1994).	
		LEVINE, et al., "Salmonella vaccines" in <i>New Antibacterial Strategies</i> (Neu, HC, ed.), pp. 89-104, (Churchill Livingstone:London, 1990).	
	✓	LISITSYN, et al., "Cloning The Difference Between Two Complex Genomes," <i>Science</i> 259:946-951 (1993).	
	✓	LISITSYN, et al., "Direct Isolation Of Polymorphic Markers Linked To A Trait By Genetically Directed Representational Difference Analysis," <i>Nature Genetics</i> 6:57-63 (1994).	

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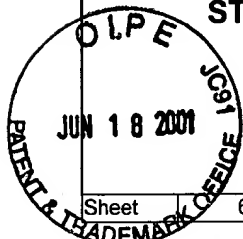
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Sheet 6 of 9

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	✓	LU, et al., "Tagged Mutations At The Tox1 Locus Of Cochliobolus Heterostrophus By Restriction Enzyme-Mediated Integration," <i>Proc. Natl. Acad. Sci. USA</i> 91:12649-12653 (1994).	
	✓	MAHAN, et al., "Selection Of Bacterial Virulence Genes That Are Specifically Induced In Host Tissues," <i>Science</i> 259:686-688 (1993).	
	✓	MAURIZI, et al., "Sequence and Structure of Clp P, the Proteolytic Component of the ATP-Dependent Clp Protease of Escherichia coli," <i>J. Biol. Chem.</i> 265(21):12536-45 (1990).	
	✓	MEI, et al., "Identification of Staphylococcus aureus virulence genes in a murine model of bacteraemia using signature-tagged mutagenesis," <i>Mol. Microbiol.</i> 26:399-407 (1997).	
	✓	MEJIA-RUIZ, et al., "Isolation and characterization of an Azotobacter vinelandii algK mutant," <i>FEMS Microbiol. Lett.</i> 156:101-106 (1997).	
	✓	MILLER, et al., "A Two-Component Regulatory System (phoPphoQ) Controls Salmonella Typhimurium Virulence," <i>Proc. Natl. Acad. Sci. USA</i> 86:5054-5058 (1989).	
	✓	MILLER, et al., "Isolation Of Orally Attenuated Salmonella Typhimurium Following TnpH _o A Mutagenesis," <i>Infection Immun.</i> 57:2758-2763 (1989).	
	✓	MORRISON, et al., "Isolation of transformation-deficient Streptococcus pneumoniae mutants defective in control of competence, using insertion-duplication mutagenesis with the erythromycin resistance determinant of pAM beta 1," <i>J. Bacteriol.</i> 159:870-876 (1984).	
	✓	MYERS & MYERS, "Isolation and characterization of a transposon mutant of Shewanella putrefaciens MR-1 deficient in fumarate reductase," <i>Let. Appl. Microbiol.</i> 25:162-168 (1997).	
	✓	NELSON, et al., "Genomic Mismatch Scanning: A New Approach To Genetic Linkage Mapping," <i>Nature Genetics</i> 4:11-17 (1993).	

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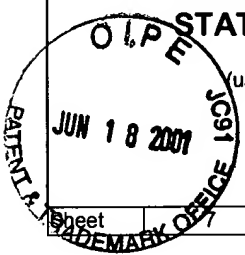
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	✓	NORGREN, et al., "A method for allelic replacement that uses the conjugative transposon Tn916: deletion of the emm6.1 allele in <i>Streptococcus pyogenes</i> JRS4," <i>Infect. Immun.</i> 57:3846-3850 (1989).	
		OCHMAN & GROISMAN, "Distribution of pathogenicity islands in <i>Salmonella</i> spp." <i>Infection and Immunity</i> 64:5410-12 (1996).	
	✓	PANG, et al., "Typhoid fever--important issues still remain," <i>Trends Microbiol.</i> 6, 131-133 (1998).	
	✓	PASCOPELLA, et al., "Use Of In Vivo Complementation In Mycobacterium Tuberculosis To Identify A Genomic Fragment Associated With Virulence," <i>Infection Immun.</i> 62:1313-1319 (1994).	
	✓	PELICIC, et al., "Genetic advances for studying Mycobacterium tuberculosis pathogenicity," <i>Molecular Microbiology</i> 28:413-420 (1998).	
		PLUNKETT, EMBL ID NO:EC29479, ACCESSION NO.: U29579 (March 4, 2000).	
	✓	POLISSI, et al., <i>Fourth European Meeting on the Molecular Biology of the Pneumococcus</i> , Abstract A.18 (1997).	
	✓	RAMAKRISHNAN, et al., "Mycobacterium marinum causes both long-term subclinical infection and acute disease in the leopard frog (<i>Rana pipiens</i>)," <i>Infect. Immun.</i> 65:767-773 (1997).	
	✓	REGUE, et al., "A generalized transducing bacteriophage for <i>Serratia marcescens</i> ," <i>Res. Microbiol.</i> 142:23-27 (1991).	
	✓	RELLA, et al., "Transposon insertion mutagenesis of <i>Pseudomonas aeruginosa</i> with a Tn5 derivative: application to physical mapping of the arc gene cluster," <i>Gene</i> 33:293-303 (1985).	

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	✓	ROOS, et al., "Tagging genes and trapping promoters in <i>Toxoplasma gondii</i> by insertional mutagenesis," <i>Methods</i> 13:112-122 (1997).	
	✓	ROTT, et al., "At least two separate gene clusters are involved in albicidin production by <i>Xanthomonas albilineans</i> ," <i>J. Bacteriol.</i> 178:4590-4596 (1996).	
		ROUDIER, et al., "Characterization of translation termination mutations in the spv operon of the <i>Salmonella</i> virulence plasmid pSDL2," <i>J. Bacteriology</i> 174:6418-6423 (1992).	
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	✓	SCHIESTL & PETES, "Integration of DNA fragments by illegitimate recombination in <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 88:7585-7589 (1991).	
	✓	SHARETZSKY, et al., "A novel approach to insertional mutagenesis of <i>Haemophilus influenzae</i> ," <i>J. Bacteriol.</i> 173:561-1564 (1991).	
		SHEA, et al., "Influence of the <i>Salmonella typhimurium</i> pathogenicity island 2 type III secretion system on bacterial growth in the mouse," <i>Infection and Immunity</i> 67:213-219 (1999).	
	✓	SLAUCH, et al., "In Vivo Expression Technology For Selection Of Bacterial Genes Specifically Induced In Host Tissues," <i>Methods Enzymol</i> 235:481-492 (1994).	
		SMITH, et al., "Genetic Footprinting: A Genomic Strategy For Determining A Gene's Function Given Its Sequence," <i>Proc. Natl. Acad. Sci. USA</i> 92:6479-6483 (1995).	

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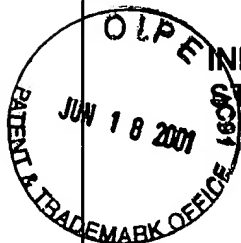
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		STEIN, EMBL ID NO:ST51867, ACCESSION NO.: U51867 (March 4, 2000).	
	✓	STOJILJKOVIC, et al., "Ethanolamine utilization in Salmonella typhurium: nucleotide sequence, protein expression, and mutational analysis of the cchA cchB eutE eutJ eutG eutH gene cluster," <i>J. Bacteriol.</i> 177(5)1357-66 (1995).	
	✓	SUBRAMANIAN, et al., "Rapid mapping of Escherichia coli::Tn5 insertion mutations by REP-Tn5 PCR" <i>PCR Methods</i> 1, 187-192 (1992).	
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	✓	TAM & LEFEBVRE, "Cloning of flagellar genes in Chlamydomonas reinhardtii by DNA insertional mutagenesis" <i>Genetics</i> 135:375-384 (1993).	
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	✓	WALSH & CEPKO, "Widespread Dispersion Of Neuronal Clones Across Functional Regions Of The Cerebral Cortex," <i>Science</i> 255:434-440 (1992).	
	✓	WOOLEY, et al., "Transfer of Tn1545 and Tn916 to Clostridium acetobutylicum," <i>Plasmid</i> 22:169-174 (1989).	

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